

**PHOTODIODE ARRAY DEVICE, A PHOTODIODE MODULE, AND
A STRUCTURE FOR CONNECTING THE PHOTODIODE MODULE AND
AN OPTICAL CONNECTOR**

ABSTRACT

A photodiode array device having an absorption layer and a cladding layer formed on one surface of a single substrate, anodes formed on the cladding layer, a cathode formed on the other surface of the substrate, and a plurality of light-receiving regions; a photodiode module including the photodiode array device; and a structure for connecting the photodiode module and an optical connector. The photodiode array device has trenches formed on the one surface of the substrate and having such a depth as to divide the absorption layer into subdivisions, for cutting off propagation of light between adjacent light-receiving regions.